

Calorimetry and Global Event Characterization in PHENIX

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Abstract

The PHENIX detector measures transverse-energy production at mid-rapidity employing a large, fine-grained electromagnetic calorimeter (EMC) covering ± 0.35 units in η . Zero-degree calorimeters (ZDC), measuring the beam-fragmentation neutron multiplicity, and beam-beam counters (BBC) are used for triggering and event characterization. These measurements are used to study properties of RHIC collisions ranging from peripheral, photonuclear to the most central events. E_t production per participant pair is compared to data from previous experiments. Timing and energy resolutions are compared with expectations from test-beam measurements. In this presentation, the performance of the calorimeters and BBC's during the year 2000 run will be discussed.
